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PATENT APPLICATION



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:	)	
MINORU WATANABE ET AL.	)	Examiner: Brook Kebede
Application No.: 10/538,774	)	Art Unit: 2823
Filed: June 10, 2005	)	Conf. No.: 5509
For: SOLID STATE IMAGE PICKUP	)	
APPARATUS AND RADIATION	)	
IMAGE PICKUP APPARATUS	)	December 13, 2006

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

SUBMISSION OF ENGLISH TRANSLATION

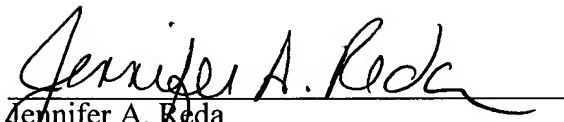
Sir:

Applicants hereby submit a copy of an English translation of the Korean Official Letter issued in a counterpart application. Please note that the Non-English Korean Official Letter and its noted references were cited in the Information Disclosure Statement filed in this application on November 6, 2006.

It is believed that no fee is required for this submission. However, if a fee is deemed required, please charge any such fee to Deposit Account No. 503939.

Applicants' undersigned attorney may be reached in our New York office by telephone at (212) 218-2100. All correspondence should continue to be directed to our address given below.

Respectfully submitted,

  
Jennifer A. Reda  
Attorney for Applicants  
Registration No.: 57,840

FITZPATRICK, CELLA, HARPER & SCINTO  
30 Rockefeller Plaza  
New York, New York 10112-3801  
Facsimile: (212) 218-2200

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Korean Patent Office

Notification of Request for Filing Argument

Applicant: Canon kabushiki Kaisya

Residence: 3-30-2, shimomaruko, Ohta-ku, Tokyo, Japan

Attorney; Hwa Ik Lee

Residence: Yosam Bldg. 648-23, Yoksam-Dong  
Kangnam-gu, Seoul 135-748, KOREA

Application Number: 10-2005-7015032

Title: Solid-State Image Pickup Apparatus

As a result of an Examination for the present application, following reason for rejection has been found. The present Official Letter has been issued under Article 63 of the Patent Law. If the applicant has an argument against the reason for rejection, please file an argument and an amendment responsive to the present Office Action by the above described due date.

(Reason for rejection)

1, the present invention as defined in claims 1-3 and 6-10 would be obvious to those skilled in the art in view of the following fact. Accordingly, the present invention has been rejected pursuant to Article 29, Paragraph 2 of the Patent Law.

(NOTE)

The present invention as defined in claims 1-2 is directed to a photoelectric conversion apparatus comprising a photo detection device and a thin film transistor (source and drain electrodes and first and second gate electrodes) connected thereto. Reviewing an image sensor comprising a photo electric conversion unit and a double gate switching transistor disclosed in Korean Patent Application Publication Gazette 2001-88443 (2001, 9, 26, hereinafter, referred to as a reference 1), and an image sensor comprising a photo diode and a TFT thin film transistor disclosed in Japanese Patent Application Publication Gazette H14-124655 (2002, 4, 29, hereinafter, referred to as a reference 2), the present invention is similar to the references. Also, the technical purpose and advantage such as maintaining stable characteristics of TFT according to the present invention is anticipated by the references 1 and 2.

Claim 3 (being dependent on claim 1) defines a structure wherein a second gate electrode covers a part of source-drain electrode gap portion. However, this structure would be obvious in view of the structure of the double gate switching transistor (source, drain, upper and lower gate electrodes) of the reference 1.

Claims 6-8 (being dependent on claim 1) defines the photo detecting device (insulating layer, semiconductor layer and impurity doped layer) wherein the second gate electrode is formed as the photo detecting element (film). However, this is obvious in view of the structure of the upper gate in the reference 1, and the structure of the photodiode (formed of n-type, intrinsic and p-type semiconductor layers).

Claims 9-10 are directed to a radiation detection

apparatus (wavelength conversion member is disposed therein) incorporating a subject matter defined in claims 1-3, and 6-8. However, those are obvious in view of the references 1 and 2 (including a phosphor) by those skilled in the art.

2, Claims 4-10 of the present application include defective description. Accordingly, the claims do not meet the requirement provided by Article 42, paragraph 5 of the Patent Law, and Article 5, Paragraph 6 of Rule, and would not be allowed.

(note)

Claim 4 (being dependent on claims 1-3) is dependent on another multi dependent claim 3 (being dependent on claims 1 and 2). Accordingly, claim 4 is defective. Also, in the same reason, claims 5-10 are defective.

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Korean Patent Office: Electric and Electron  
Examination Main Office

Electric and Electron Examination Team Examiner